JC20 Rec'd PCT/PTO 0 2PTM 159Y (R2012 2005)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. TRANSMITTAL LETTER TO THE UNITED STATES ATTORNEY'S DOCKET NUMBER ATTORNEY'S DOCKET NUMBER JHU1910-5

DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

INTERNATIONAL FILING DATE

e CFR 1.5) U.S. APR

IINI	EKIN	PCT/US2003/035734 November 10, 2003 November 8, 2002
		F INVENTION N EMBRYONIC STEM CELL CULTURES, AND COMPOSITIONS AND METHODS FOR GROWING SAME
ΑP	PLIC	ANT(S) FOR DO/EO/US
Lir	ızhac	Cheng
Δpr	olican	t herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:
	⊠	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.
_		This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.
	×	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4	☒	The US has been elected (Article 31).
_	_	
Э.	Ø	A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
	a.	is attached hereto (required only if not communicated by the International Bureau).
	b.	has been communicated by the International Bureau.
٠.	c.	is not required, as the application was filed in the United States Receiving Office (RO/US).
6.		An English language translation of the International Application as filed (35 U.S.C.
	a.	is attached hereto.
	b.	has been previously submitted under 35 U.S.C. 154(d)(4).
7.	⊠ a.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) are attached hereto (required only if not communicated by the International Bureau).
	b.	☐ have been communicated by the International Bureau.
	C.	A have not been made; however, the time limit for making such amendments has NOT expired.
	d.	have not been made and will not be made.
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.	Ø	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (unsigned)
10	. 🗆	An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
	Iten	ns 11 to 20 below concern document(s) or information
11.	. 🗆	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12	. 🗆	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13	. 🛛	A preliminary amendment.
14	. 🗆	An application Data Sheet under 37 CFR 1.76.
15	. 🗆	A substitute specification.
16		A power of attorney and/or change of address letter.
17	. 🗆	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18	. 🗆	A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19	. 🗆	A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
20	.⊠	Other items or information: Certificate of Mailing under 37 CFR 1.10 (EV 627 501 979 US); Check No. 577448 in the amount of \$1,865.00; Return Receipt Postcard

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. U.S. APPLICATION NO. (if known, see 37 CFR | INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER PCT/US2003/035734 JHU1910-5 The following fees are submitted: CALCULATIONS PTO USE ONLY \$300.00 \$300 If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4). \$100 \$200.00 Search fee \$400 \$100.00 All other situations..... \$500 TOTAL OF 21, 22 and 23 = \$600.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or RATE fraction thereof (round up to a whole 40 - 100 = /50 = \$250.00 \$0.00 х Surcharge of \$130.00 for furnishing the oath or declaration later than 30 \$ months from the earliest claimed priority date (37 CFR 1.492(h)). \$130.00 NUMBER FILED NUMBER EXTRA **RATE** CLAIMS Total claims 64 - 20 = \$50.00 \$2,200.00 X \$ Independent claims 7 4 - 3 = \$200.00 \$800.00 х Multiple Dependent Claims (if applicable) \$360.00 \$ \$ \$3,730.00 **TOTAL OF ABOVE CALCULATIONS** Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are \$ \$1,865.00 reduced by 1/2. SUBTOTAL \$ \$1,865.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). \$ \$ \$1,865.00 **TOTAL NATIONAL FEE** Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per \$ \$1,865.00 **TOTAL FEES ENCLOSED =** \$ Amount to be \$ refunded: Amount to be \$ charged: a. A check in the amount of \$1,865.00 to cover the above fees is enclosed. b. Please charge my Deposit Account in the amount of to cover the above fees. A duplicate copy of this sheet is enclosed. c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account 07-1896 . A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. d. 🔲 NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: Lisa A. Haile, J.D., Ph.D. DLA Piper Rudnick Gray Cary US LLP 4365 Executive Drive, Suite 1100 San Diego, CA 92121-2133 Lisa A. Haile, J.D., Ph.D. **USPTO Customer Number 28213** NAME 38,347 May 2, 2005 REGISTRATION NUMBER

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PATENT

ATTORNEY DOCKET NO.: JHU1910-5

Certificate of Mailing under 37 CFR § 1.10

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I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with sufficient postage on the date indicated above and is addressed to:

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Enclosures:

- 1. Form PTO-1390 (2 pages in duplicate);
- 2. Preliminary Amendment (3 pages);
- 3. Declaration (unsigned) (3 pages);
- 4. Certificate of Mailing under 37 CFR § 1.10 (1 page);
- 5. Check No. 577448 in the amount of \$1,865.00; and
- 6. Return Receipt Postcard

Stephanie Sharrett

Name of Person Mailing Papers

Signature